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| APPLICATION NO.                    | FILING DATE                   | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|------------------------------------|-------------------------------|----------------------|---------------------|------------------|
| 10/589,878                         | 06/05/2007                    | Harrie R. Buswell    | A-9822              | 2833             |
|                                    | 7590 01/26/200<br>CKBRIDGE PC | EXAMINER             |                     |                  |
| 1751 PINNACI                       |                               | NGUYEN, TUYEN T      |                     |                  |
| SUITE 500<br>MCLEAN, VA 22102-3833 |                               |                      | ART UNIT            | PAPER NUMBER     |
| -                                  |                               |                      | 2832                |                  |
|                                    |                               |                      |                     |                  |
|                                    |                               |                      | NOTIFICATION DATE   | DELIVERY MODE    |
|                                    |                               |                      | 01/26/2009          | ELECTRONIC       |

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

ipdocketing@milesstockbridge.com sstiles@milesstockbridge.com

| Office Action Summary  |  | Application No.  | Applicant(s)                   |  |  |  |  |
|--|--|--|--------------------------------|--|--|--|--|
|  |  | 10/589,878   | BUSWELL, HARRIE R.             |  |  |  |  |
|  |  | Examiner   | Art Unit                       |  |  |  |  |
|  |  | TUYEN T. NGUYEN  | 2832                           |  |  |  |  |
| Period fo  | The MAILING DATE of this communication app<br>or Reply   | ears on the cover sheet with the c   | orrespondence address          |  |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). |  |  |                                |  |  |  |  |
| Status   |  |  |                                |  |  |  |  |
| 1)  ズ  | ☑ Responsive to communication(s) filed on <u>03 November 2008</u> .  |  |                                |  |  |  |  |
| •  | This action is <b>FINAL</b> . 2b) ☐ This action is non-final.  |  |                                |  |  |  |  |
| ′—   | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is                                  |  |                                |  |  |  |  |
| ٥,١  | closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  |  |                                |  |  |  |  |
| Disposition of Claims  |  |  |                                |  |  |  |  |
| -  |  |  |                                |  |  |  |  |
| -  | Claim(s) <u>1-22</u> is/are pending in the application.  |  |                                |  |  |  |  |
|  | 4a) Of the above claim(s) <u>1-6 and 13-16</u> is/are withdrawn from consideration.  |  |                                |  |  |  |  |
| · · · · · · · · · · · · · · · · · · ·  | 5) Claim(s) is/are allowed.  |  |                                |  |  |  |  |
| ="   | 6) Claim(s) <u>7-12 17-22</u> is/are rejected.   |  |                                |  |  |  |  |
| -  | Claim(s) is/are objected to.   |  |                                |  |  |  |  |
| 8)[_]  | Claim(s) are subject to restriction and/or   | r election requirement.  |                                |  |  |  |  |
| Applicati  | on Papers  |  |                                |  |  |  |  |
| 9)☐ The specification is objected to by the Examiner.  |  |  |                                |  |  |  |  |
| 10)  | 10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.  |  |                                |  |  |  |  |
|  | Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  |  |                                |  |  |  |  |
|  | Replacement drawing sheet(s) including the correcti  | on is required if the drawing(s) is obj                                    | ected to. See 37 CFR 1.121(d). |  |  |  |  |
| 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.   |  |  |                                |  |  |  |  |
| Priority u   | ınder 35 U.S.C. § 119  |  |                                |  |  |  |  |
| <ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>  |  |  |                                |  |  |  |  |
| 2)  Notic 3) Inforr  | e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date | 4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other: | ite                            |  |  |  |  |

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## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 7-12, 17-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Di Giulio, et al. [WO 00/44006] or Bolotinsky et al. [US 2002/0033748 A1] in view of Nakao et al. [US 7,218,196 B2]

Di Giulio et al. discloses an inductive device [figure 3], comprising:

- an electrical winding component of generally toroidal shape [13, 14]; and
- a plurality of discrete magnetic components [magnetic wires 19] embracing the electrical winding.

Bolotinsky et al. discloses an inductive device [figures 3-4] comprising:

- an electrical winding component of generally toroidal shape [14, 15]; and
- a plurality of discrete magnetic component [ribbon 18], each formed as a toric section which is generally sector-shaped in plane view and at least embracing the electrical winding.

Di Giulio et al. or Bolotinsky et al. discloses the instant claimed invention except for the specific gap and specific shape of magnetic components.

Nakao et al. discloses a magnetic core [figures 1A-1B] comprising a plurality of magnetic elements/laminations [1A, 1B, 1C] having a circular-sector-shape in plan view, each having gap [d].

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It would have been obvious to one having ordinary skilled in the art at the time the invention was made to form gap in the magnetic component of Di Giulio et al. or Bolotinsky et al., as suggested by Nakao et al., for the purpose of improving performance characteristics.

Regarding claims 8-9 and 11-12, Di Giuliu et al. or Bolotinsky et al. discloses the magnetic component includes one of or a plurality of magnetic wires of magnetic ribbon.

Regarding claims 17-22, the specific location of the gap, specific shape of the magnetic component, the specific thickness variation of the bundle would have been an obvious design consideration based on the intended applications/environments uses.

## Response to Arguments

Applicant's arguments with respect to claims 7-12 and 17-22 have been considered but are most in view of the new ground(s) of rejection.

## Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to TUYEN T. NGUYEN whose telephone number is (571)272-

1996. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, ELVIN ENAD can be reached on 571-272-1990. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/TUYEN T NGUYEN/

Primary Examiner, Art Unit 2832